



ANJUMAN-I-ISLAM'S

AKTC KALSEKAR TECHNICAL CAMPUS

INNOVATIVE TEACHING · EXUBERANT LEARNING

School of Architecture

School of Engineering & Technology

School of Pharmacy

Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoP/ACKN/QUES/2015-16/

Date: 06/04/2016

School: SoP-CBSGS

Branch: SoP

SEM: II

To,
Exam Controller,
AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following ~~Semester~~/Periodic question papers from your exam cell:

Sr. No.	Subject Name	Subject Code	Format		No. of Copies
			SC	HC	
1	Pharm. Chem. – I			✓	01
2	Biochemistry – I			✓	01
3	Pharmaceutics – I			✓	01
4	Physical Pharmacy – II	—		✓	01
5	APP – II			✓	01

Note: SC – Softcopy, HC - Hardcopy

Shaheen Ansari

(Shaheen Ansari)
Librarian, AIKTC



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**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL**

School of Pharmacy

*Approved & Recognised by: All India Council for Technical Education and Council of Architecture, New Delhi
Directorate of Technical Education, Govt. of Maharashtra Affiliated to: University of Mumbai*

**F. Y. B. Pharm. (Semester –II)
Periodic Theory Examination (2015 – 2016)**

Subject:PP-II
Marks: 15M

Date: 03 -03-2016
Time: -11.00 am-12.00 pm

- Q-1. Define- Molecularity of reaction and shelf life. [2M]
Q-2. Derive Handerson-Hasselbach equation for weak acids. [2M]
Q-3. Derive an equation for specific rate constant and half life of first order reaction. [2M]
Q-4. Discuss Henry law of solubility of gases in liquid. [2M]

OR

Short note on Pharmaceutical buffers and their application.

- Q-5. Discuss the effect of temperature on the solubility of partially miscible liquid with example. [2M]
Q-6. Discuss various methods to adjust the tonicity of solution. [2M]

OR

Describe different methods to determine order of reaction.

- Q-7. Write a note on Arrhenious equation and give its significane in pharmacy. [3M]

OR

Short note on accelerated stability studies in pharmacy and explain decomposition of drug by different methods.





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F. Y. B. Pharm. (Semester -II)
Periodic Theory Examination (2015 – 2016)

Subject: Pharmaceutics I
Marks: 15M

Date: -
Time: - 11.00 am -12.00 pm

Questions

Marks

1. Answer any Two

5X2=10

- Describe the method for the determination of particle size by sieve method..
- Describe the method for the determination of particle size by sedimentation method..
- Define true density, bulk density, granule density with formula.
- Describe the factors influencing size reduction.

2. Write notes on (any two).

2.5x2=5

- Working principle of Ball mill.
- Newton's law of flow of liquid.
- Working principle of cyclone separator.
- Pseudoplastic flow of liquid.





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**F. Y. B. Pharm. (Semester –II)
Periodic Theory Examination (2015 – 2016)**

Subject: BIOCHEMISTRY-I
Marks: 15 M

Date: - 1/ 03 /16
Time: - 11-12 am

Questions	Marks
Qs.1.a] Define epimers? Give example with respect to carbohydrates.	[1M]
b] Write a short note on starch.	[3M]
c] Draw the structure of lactose.	[1M]
Qs.2. a) Answer the following question	[1M]
i) Name a water soluble vitamin synthesized by bacteria	
ii) Give coenzyme for thiamine and its deficiency	
b) Explain in detail with proper examples / structure (any TWO)	[2M]
i) Structure of vitamin B ₉ and its deficiency	
ii) Note on Nicotinamide	
iii) Write a note on biological role of Ascorbic acid	
c) Write in detail (any ONE)	[2M]
i) Discuss biological role of vitamin B ₆ or B ₁₂	
ii) Write a note on Riboflavin or Pantothenic acid.	
Qs 3.a] Enlist factors affecting enzyme activity.	[2M]
b] Derive Michaelis menten Equation.	[2M]
c] Draw well labelled diagram of Lineweaver-Burk Double reciprocal Plot.	[1M]





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**F. Y. B. Pharm. (Semester –II) CBSGS
Periodic Theory Examination (2016)**

2015-16

**Subject: Pharmaceutical Chemistry-I
Marks: 15 Marks**

**Date: - 29/02/16
Time: - 11.00 am-12.00 pm**

- Q.1 Draw structure of Calcium disodium Edetate and Desferroxamine [02M]
- Q.2 Explain Oxygen in detail. [03M]
- Q.3 Write Short notes on (Any two) [05M]
- a) Dentrifices and Desentizing agents
 - b) Nitrous Oxide as a Potential Anaesthetic
 - c) Disodium EDTA
- Q.4. Write a note on natural water and portable water [02 M]
- Q.5. Pharmaceutical uses of HCl ? describe in brief the composition of soda lime ? [03 M]

Balance this equation



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**F. Y. B. Pharm. (Semester -II)
Periodic Theory Examination (2015 - 2016)**

**Subject: APP-II
Marks: 15M**

**Date: 4/3/2016
Time: -11.00 am-12.00**

All questions are compulsory.

Q-1. Discuss central control of respiration.

[3Marks]

OR

Explain the neural regulation of respiration.

Q-2. Explain External and Internal respiration with diagram.

[2 Marks]

Q-3: Attempt any TWO questions

[6 Marks]

- Draw a well labeled diagram of neuron and comment on the role of dendrites, cell body and axon.
- Describe the classes and functions of neurotransmitters.
- Explain the events of signal transmission at chemical synapse.
- Differentiate somatic and autonomic nervous system.

Q-4: Write a short note on (ANY TWO)

[4 Marks]

- Internal anatomy of spinal cord
- Stretch reflex arc
- Cerebrum

+++++

